

HT-23



PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICES

#2

RECEIVED  
MAR 25 2002  
TC 1700

Application of : Bing Zhou, et al

Serial No. : 10/066289

Filed : 1/31/02

For : "Supported Noble Metal Catalyst Particles Containing  
Controlled (111) Crystal Face Exposure"

Group Art Unit :

Examiner :

#### INFORMATION DISCLOSURE STATEMENT

Rockville, MD

Honorable Commissioner of Patents

Washington, D.C. 20231

Sir:

This statement is intended to serve as a representation that the art listed on the attached form PTO-1449 in connection with the above identified application includes, in the opinion of the above named applicants and the undersigned, the closest additional art of which they are aware. This statement is not to be construed as a representation that a search has been made or that no better art exists. The art listed herein, while of some relevance, is not considered to teach or suggest the invention described and claimed in the aforementioned application.

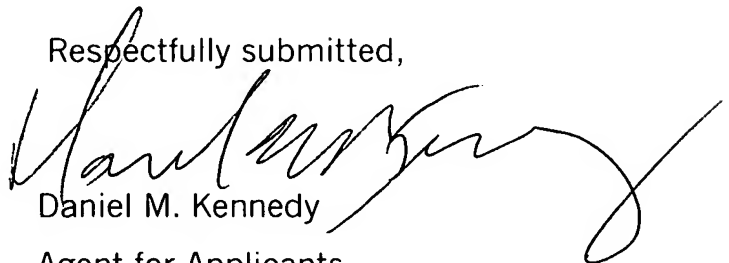
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U.S. patent 6,168,775 discloses a supported nanometer-sized noble metal catalyst for hydrogen peroxide production. The crystal face of the catalyst particles are controlled to expose 110 and/or 220 crystal phases.

U.S. patent 6,090,858 teaches a shape control method for nanoparticles for making better and new catalysts. The desired shape is controlled to provide one or more of cubic particles, tetrahedra, polyhedra and irregular-prismatic particles.

European Patent EO 0864362A1 teaches a catalyst comprising a composite structure consisting of metallic nanoparticles coated with an organic polymer. The patent includes the process for the production of the composite structure.

Respectfully submitted,

A handwritten signature in black ink, appearing to read 'Daniel M. Kennedy', is written over the typed name.

Daniel M. Kennedy

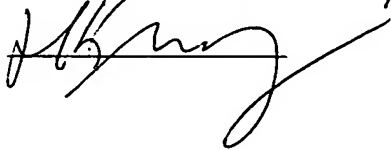
Agent for Applicants

Reg. No. 32,144

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I certify that this correspondence is being deposited with the United States Postal Service  
as first class mail in an envelope addressed to: Commissioner of Patents, Washington,  
D.C. 20231 on 3/12/02, Daniel M. Kennedy, Registration Number 32144,

A handwritten signature in black ink, appearing to be "J. Kennedy", written over a horizontal line.